

BYPRODUCT MATERIAL LICENSE

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Amendment No. 07

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Parts 30, 32, 33, 34, and 35, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below; and to use such byproduct material for the purpose(s) and at the place(s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

Licensee		
1. Name	Shell Oil Company Norco Refinery	In accordance with application dated September 13, 1966 17-06751-01 is amended in its entirety to read as follows:
2. Address	Norco, Louisiana 70079	
3. License number		
4. Expiration date		September 30, 1968
5. Reference No.		
6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radioac- tivity which licensee may pos- sess at any one time
A. Strontium 90	A. Sealed source (U.S. Radium Corp. Model LAB-345)	A. 2 sources of 35 millicuries each
B. Cobalt 60	B. Sealed sources (U.S. Nuclear Type 3283)	B. 4 sources of 25 millicuries each
C. Cesium 137	C. Sealed source (U.S. Radium Model LAB 111)	C. 50 millicuries
9. Authorized use		
A. To be used in Shell Development Company Model 1850 gauge unit to measure fluid density.		
B. To be used in Ohmart Model B-6255 source holders for measuring the level of coke in drums and in Ohmart Model B-2508 source holders for storage.		
C. To be used in an Ohmart Model SHERM-3 source holder for measuring the level of material in a closed vessel.		

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CONDITIONS

10. Byproduct material may only be used at the licensee's address stated in Item 2 above.
11. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards for Protection Against Radiation."
12. Byproduct material shall be used by, or under the supervision of, C. A. Cailliet, Jr.
13. A. Each sealed source containing byproduct material, other than Hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, the sealed source shall not be put into use until tested.
B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.
C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the test with the Director, Division of Materials Licensing, U. S. Atomic Energy Commission, Washington, D. C., 20545, describing the equipment involved, the test results, and the corrective action taken. A copy of such report shall also be sent to the Director, Region II, Division of Compliance, USAEC, 50 Seventh Street, Northeast, Atlanta, Georgia, 30323.

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13. D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or an agreement State to perform such services.
14. Except as specifically provided otherwise by this license, the licensee shall possess and use byproduct material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated July 12, 1960, letter dated November 8, 1960 from G. Darickson, application dated March 11, 1965 and application received January 14, 1966.

For the U. S. Atomic Energy Commission

Original Signed By
Robert E. Brinkman

by Isotopes Branch

Division of Materials Licensing
Washington, D. C. 20545

Date _____

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min / sig

LEB 9/29/66